
Product Data Sheet

Product Name: MIP 1b Rat
 Cat. No.: GP21181
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	C-C motif chemokine 4; Macrophage inflammatory protein 1-beta; MIP-1-beta; Small-inducible cytokine A4; Ccl4; Mip1b; Scya4.		
Amino Acid Sequence	APIGSDPPTS CCFSYTSRKI HRNFVMDYYE TSSLCSQPAV VFLTKKGRQI CADPSEPWVN EYVNDLELN.		
Solubility	It is recommended to reconstitute the lyophilized Mouse MIP-1b in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Filtered (0.2µm) and lyophilized from a concentrated (1mg/ml) solution in 30% Acetonitrile and 0.1% TFA.		

Introduction

Macrophage Inflammatory Proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1 α and MIP-1 β that are now officially named CCL3 and CCL4 respectively. Both are major factors produced by macrophages after they are stimulated with bacterial endotoxins. They activate human granulocytes (neutrophils, eosinophils and basophils) which can lead to acute neutrophilic inflammation. They also induce the synthesis and release of other pro-inflammatory cytokines such as interleukin 1 (IL-1), IL-6 and TNF- α from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

Biological Activity

Determined by its ability to chemoattract human monocytes using a concentration range of 0.01-1.0 µg/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Lyophilized Mouse MIP-1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Mouse CCL4 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

MIP-1b Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 69 amino acids and having a molecular mass of 7.8 kDa. The MIP-1b is purified by proprietary chromatographic techniques.

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